

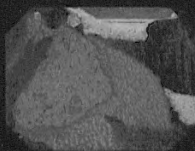
#9. California Coast.

#1. Eastern Pacific.

D^r 4549 to D^r 4622. (?)

Hy. 4804 to Hy.

June 7th to Oct^r 21st, 1904



50.9

Dr 0 4549

Say 0 ~~4499~~
4804

~~4500~~

next Ny - 4501

$\int V^0 / - 1904-05.$

#9

next Hydr 4499.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

~~2nd R.~~ To Locate Portuguese Sledge

No. Hy ~~4499~~ 4304 Date June 7th 1904
 Tanne Machine. Reel.

Turns 50 Cor. + 1 Depth 51

Shot or lead 26 lbs lead

Bottom R

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 66° Surface 57° Drift

Trawl or dredge Triangular Trawl with 8 tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8.10.00	8.11.00	0		
		100		
		200		
8.13.50	47+1 = 48	300		
8.14.00	46+1 = 47	400		
8.15.00	46+1 = 47	500		
8.19.00	47	600		
		700		
8.28.50	47+1 = 48	800		
8.31.20	45+1 = 46	900		
8.34.00	45+1 = 46	1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Dredging in connection with following this Hy part then is recorded in book #8

"Depth on Portuguese Sledge"
 "45 fms"
 "(or by study off)"

Hy # 4499 was taken before the preceding Dr 4548.

was caused by the necessity of plotting Hy 4499 at the time Dr 4548 was being recorded. Recordbook #8 being used as a Relief Recordbook on its last page, while #7 was used in the Pilot House -

in Monterey Bay

Angles & Bearings taken

Dr Course West
W at 8.10

2500

α.w. 8.10.00

2600

to locate

2700

Portuguese Ledge in Monterey Bay.

2800

2900

used by fishermen in

3000

Rock Cod Fishing

3100

8.10.00 A.M.

3200

Li Ho to Murrel 26° 40' 00"

3300

Li Ho 5° W 1/8 W

Second Series

3400

8.11.30

3500

Li Ho to Murrel 27° 02' 00"

3600

Li Ho 8° W

3700

8.12.50

3800

Li Ho to Murrel 27° 23' 00"

3900

Li Ho 5° W 1/8 W

4000

Center of ledge bears

SERIAL TEMPERATURES.

NW, distant 150 yards, 47 fath.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
A.M. 25	8.28	50	✓	8.14.00
Li Ho to Murrel	26° 34'			Li Ho to Murrel 27° 34' 00"
Li Ho	8° W			Li Ho 5° W 1/8 W
A.M. 200	8.29	40		
Murrel	45 fms depth			
Li Ho to Murrel	27° 02'			
Li Ho	8° W			
600	8.31	27		
Li Ho to Murrel	27° 20'			
Li Ho	8° W 1/8 W			
A.M. 900	8.32.00			
Li Ho to Murrel	27° 26'			
Li Ho	8° W			

45 fms 8.33.10 A.M. REMARKS:

Li Ho to Murrel 27° 35'

Li Ho 8° W 3/8 W

A.M. 8.34.00

45 fms 27° 40' Li Ho to Murrel

8° W 1/2 W bearing of Point Pinos 26

7. H. R. *on*

No. *Dr 4549* Date *Jan 7-1902*

Trawl Machine. Reel.

Turns *55* Cor. + *2* Depth *56 fms*

Shot or lead *26 lbs*

Bottom *R*

Bottom temperature *—*

No. of thermometer *—* Cor. *—*

Corrected temperature *—*

Air *see log* Surface Drift

Trawl or dredge *Stangle on frame and mud bag*

SOUNDING WIRE.

DOWN. *A.M.* UP.

TURNS.

DREDGE ROPE.

DOWN. *all* UP.

<i>9.01.30</i>	<i>9.03.00</i>	<i>0</i>	<i>9.02.00</i>	<i>9.18.00</i>
<i>Interm. Sdg.</i>		<i>85</i>	<i>9.07.00</i>	<i>9.15.00</i>
<i>9.05.00</i>	<i>61+1 = 62</i>	<i>300</i>	<i>time 8 m</i>	
<i>9.08.00</i>	<i>56+1 = 57</i>	<i>400</i>		
<i>9.12.00</i>	<i>57+1 = 58</i>	<i>500</i>		
<i>9-15-00 =</i>	<i>56+1 = 57</i>	<i>600</i>		
<i>17.18.00</i>	<i>54+1 = 55</i>	<i>700</i>		
		<i>800</i>		
		<i>900</i>		
		<i>1000</i>		
		<i>1100</i>		
		<i>1200</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

continued to determine Fortingale Sledge in

AM 9.02.30

Monting Bay

West.

Bar
Th att
Wind
Weather

as
proceeding

beginning
and
End of
haul

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Si Hoto' Mosa 25° 26'

Si Hoto' Mosa S 78 E

A 9.15 57

Si Hoto' Mosa 21° 35'

Si Hoto' Mosa S 6 E 7/8 E

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Dr 4550*

Date

June 7. 1904

Tanner

Machine.

Reel.

Turns *49* Cor. + *1*Depth *50 fms*Shot or lead *26 lbs*Bottom *R & gn M*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

see log

Surface

Drift

Boat
Trawl or dredge *3/8 6 tangles**(6 swabs)*

SOUNDING WIRE.

DOWN. *A* *M* UP.

TURNS.

DREDGE ROPE.

DOWN. *A* *M* UP.*9.35.00* ✓ *9.37.00*

0

9.38.00 *10.02.00*

50

9.42.00

100

65

9.44.00 *9.58.30*

200

300

Time 16 1/2 hr

400

paid out to 65 at 47.30

500

9.40.00 *46+1-47 fms*

600

9.43.30 *52+1-53 "*

700

9.47.30 *63+1-64 "*

800

9.51.00 *74+1-58 "*

900

9.55.00 *84+1-58 "*

1000

10.00.00 *56+1-57 "*

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

to locate Italian Ledge

A.M. 9. 41. 50

Dr Course

SSE

Right Tangent

Point

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

19° 35.00

S.S.E.

9. 47. 50

20° 50'

SSE 1/4 E

9. 50. 30

21° 30'

SSE 1/2 E

To locate

Italian Ledge in

Monterey Bay -

Monterey Bay

Fishbanks Pilot

Mr Silva of Monterey

estimates this ledge

to be about one mile

one North and South

and to be

3/8 mile wide.

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR. TEMP.
25			
50	ahead at 10. 02. 30		
100	standard W		
200			
300			
400			
500			
600			
700			
800			
900			
1000			

REMARKS:

No. *Dr 4551* Date *June 7, 1891*Machine. *✓* Reel.Turns *55* Cor. + *1* Depth *56 fms*Shot or lead *26 lbs*Bottom *R. crs S sh*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge and *6 ft. beam trawl*

SOUNDING WIRE.

DOWN. *A*

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

*10.18.15**0**10.18.15**10.18.15**100**200**300**400**500**600**700**800**900**1000**1100**1200**1300**1400**1500**1600**1700**1800**1900**2000**2100**2200**2300**2400**to leave up on sudden*

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	<i>Bottom</i>
	3600	<i>1750</i>
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507.
Franklin

No. *1111* Date *9 June, 1904.*

Tanner Machine. Reel

Turns *65* Cor. + *1* Depth *66* fms.

Shot or lead *26 lb*

Bottom *fine gy S. & R.*

Bottom temperature

No. of thermometer

Corrected temperature

Air Surface Drift

Trawl or dredge

AM. SOUNDING WIRE.

TURNS.

AM. DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

8.10 - 6 fms. fine gy S. & R.

0

15 - 69 " 1 lb.

100

18 - 71 "

200

20 - 71 "

300

23 - 72 "

400

26 - 80 "

500

30 - 86 "

600

33 - 101 "

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Dr. Cruise

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

Position: 21° 10' N, 158° 10' W
Lat. 21° 10' N, Long. 158° 10' W
Y. S. No. 1 - 5110
Y. S. No. 2 - 5110

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	26.0	138		
50	64	138		
100	25.4			
200				
300	<i>This and following Soundings are taken to locate "Cooper's Bank".</i>			
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Date 10/10/1961

Reel.

Turns ~~67~~ Cor. + +

Depth $\frac{0.5}{1.5}$ fms.

Shot or lead 744 200

73 June

Bottom 1 Ky; gm. (v).

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

61

Surface

Drift

Trawl or dredge 8 Fathoms and Mudben;

428. SOUNDING WIRE.

11. DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
8.25		0	5.25	8.17.00
		100	4.0	
		110	8.41	8.17.50
		200		
		300		
8.45		400	14 min.	
8.55		500		
9.05		600		
9.15		700		
9.25		800		
9.35		900		
9.45		1000		
9.55		1100		
10.05		1200		
10.15		1300		
10.25		1400		
10.35		1500		
10.45		1600		
10.55		1700		
11.05		1800		
11.15		1900		
11.25		2000		
11.35		2100		
11.45		2200		
11.55		2300		
12.05		2400		

	2500	
	2600	
	2700	
	2800	
at or Comm. S. F. L. E.	2900	Position.
Clear, long horizon line	3000	8.26.
Atmosphere clear, V. H. V.	3100	rel. R. - 5.44.
Heavy swell	3200	rel. R. - 5.44.
Bar. 30.07	3300	" - 8.26.
Temp. 5.5	3400	rel. R. - 5.44.
Current 1.5	3500	rel. R. - 5.44.
	3600	rel. R. - 5.44.
	3700	"
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	36.04 - 143			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

To locate [unclear] [unclear]

No. *4-52*

Date

June 10, 1904

Machine.

Reel.

Turns *69* Cor. + *5*

Depth *74 fms.*

Shot or lead *35 lb*

Bottom *rk*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *59°* Surface *56°* Drift

Trawl or dredge *8 Trawl*

Am. SOUNDING WIRE.

Am. DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>0.10</i>	<i>✓</i>	0	<i>0.20.00</i>	<i>8.10</i>
		100	<i>0.25.00</i>	<i>8.10</i>
<i>1.10</i>	<i>8.10</i>	200	<i>V = 2 / min.</i>	
<i>2.20</i>	<i>7.4 fms.</i>	300		
<i>3.4</i>	<i>7.2 "</i>	400		
<i>4.6</i>	<i>6.6 "</i>	500		
<i>5.8</i>	<i>6.6 "</i>	600	<i>Coal, [unclear]</i>	
<i>7.0</i>	<i>6.6 "</i>	700	<i>Sh. mud [unclear]</i>	
<i>8.2</i>	<i>6.6 "</i>	800	<i>within [unclear]</i>	
<i>9.5</i>	<i>6.6 "</i>	900	<i>hard [unclear]</i>	
<i>10.7</i>	<i>6.6 "</i>	1000		
<i>12.0</i>	<i>6.6 "</i>	1100		
<i>13.2</i>	<i>6.6 "</i>	1200		
<i>14.5</i>	<i>6.6 "</i>	1300		
<i>15.7</i>	<i>6.6 "</i>	1400		
<i>17.0</i>	<i>6.6 "</i>	1500		
<i>18.2</i>	<i>6.6 "</i>	1600		
<i>19.5</i>	<i>6.6 "</i>	1700		
<i>20.7</i>	<i>6.6 "</i>	1800		
<i>22.0</i>	<i>6.6 "</i>	1900		
<i>23.2</i>	<i>6.6 "</i>	2000		
<i>24.5</i>	<i>6.6 "</i>	2100		
<i>25.7</i>	<i>6.6 "</i>	2200		
<i>27.0</i>	<i>6.6 "</i>	2300		
<i>28.2</i>	<i>6.6 "</i>	2400		

x "Coal" "70 fms" or "Soft Rock"

	2500	
	2600	
	2700	
	2800	
Lat. 30.00	2900	Cor. 1.00
Long. 150.00	3000	
Time 11.00	3100	Yr. 1.00 50.00
Time 11.30	3200	Yr. 1.00 50.00
Time 12.00	3300	Yr. 1.00 50.00
Time 12.30	3400	
Time 13.00	3500	9.30.20
Time 13.30	3600	Yr. 1.00 50.00
Time 14.00	3700	Yr. 1.00 50.00
Time 14.30	3800	Yr. 1.00 50.00
Time 15.00	3900	
Time 15.30	4000	9.30.20

SERIAL TEMPERATURES.
 At 1000 RK - 50.00
 At 1100 RK - 50.00

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	50.00		Yr. 1.00 RK - 68°20'	
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

To locate "Cooper Leage". x)

No. 1 Date 9 June 1904

Sigsbee Machine. Reel. 1 Navy

Turns 55 Cor. + Depth 60 fms.

Shot or lead 35 lb

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 57 Surface 57 Drift

Trawl or dredge 6 Tangles and 1 dredge.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.04	✓	0	10.02	10.11
		100	10.04	
		110	10.06	39.45
		200	At 10.05	10.39.00
10.06	60 fms.	300	1 out	11.00
08	60 "	400	Trawling	
11	62 "	500	10	32 min
13	65 "	600		
15	65 "	700		
17	65 "	800		
		900		
21	65 "	1000		
23	66 "	1100		
25	67 "	1200		
27	69 "	1300		
30	71 "	1400		
32	72 "	1500		
34	74 "	1600		
36	77 "	1700		
38	80 "	1800		
40	81 "	1900		
		2000		
		2100		
		2200		
		2300		
		2400		

x) "Cooper's" 720 fms. or 2400 fms. - South Bay

	2500	
	2600	
	2700	
	2800	
W x R.	2900	
10.0	3000	
3100		
3200		
3300		
3400		
3500		10.17
3600		
3700		
3800		
3900		
4000		10.28.00

W x R.
 10.0
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000

10.0
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000

SERIAL TEMPERATURES.

10.17
 10.28.00

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	36.09	143		10.39.00
50	55	138		
100	35.51	5		
200				
300				
400				
500				
600				
700		3609	143	
800		58	138	
900		35.51	5	
1000				

REMARKS:

To locate [unclear] (x)

No. ~~4555~~ Date *June 1, 1901*
Sigsbee Machine. Reel. *1*
 Turns *5 1/2* Cor. + *5* Depth *10 1/2 fms.*
 Shot or lead *35 lb*
 Bottom _____
 Bottom temperature _____
 No. of thermometer _____ Cor. _____
 Corrected temperature _____
 Air _____ Surface _____ Drift _____
 Trawl or dredge _____

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10.57.</i>		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

* "Cape's Rock"
 "70 fms. Rock"
 "Cape's Rock"

	2500	
	2600	
Dr. Combs,	2700	Position.
Clear, dry, ...	2800	8:57.30
Ther. ... N.W.	2900	Green Bank S.S.E. 11 E.
	3000	Wh. Bank S.S.W.
	3100	White Bank S.S.W.
Ther. ...	3200	
	3300	11:04.30
	3400	Green Bank S.S.E. 11 E.
	3500	Wh. Bank S.S.W.
	3600	White Bank S.S.W.
	3700	
	3800	
	3900	Green Bank
	4000	White Bank

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

To locate "Carpenter Lodge"

No. 1545 Date 9 Jan 1901
 Machine. Reel. 1
 Turns 61 Cor. + Depth 60 fms.
 Shot or lead 35 lb
 Bottom rky. gy. M.
 Bottom temperature
 No. of thermometer Cor.
 Corrected temperature
 Air 59° Surface 57° Drift
 Trawl or dredge 8' Trawl

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11-25

✓

0

11-25

11-25

90

11-28

11-28

100

1/2 min. Sogs.

200

= 14 min

11-29

67

300

30

66

400

32

68

500

35

66

600

37

66

700

39

67

800

42

67

900

45

64

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

	2500	
	2600	
Dr. ... W. & N.	2700	Position:
Alas. ... (land).	2800	" 2 6
... N. W.	2900	... S 60° E
... Creek.	3000	... S 60° E
... 30. 00	3100	... S 60° E
... 60"	3200	... 11. 00
	3300	... S 60° E
	3400	... S 60° E
	3500	... S 60° E
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	36.09 -	113		
50				
100	Mr. Silas says			
200	this locality is			
300	known as "Cape Rock, red-ledge?"			
400				
500	"Cape Rock?"			
600				
700	"South Rock?"			
800				
900				
1000				

REMARKS:

To verify location of Italian Sledge in Monterey Bay.

No. 27 Date *July 10*
 Sigsbee Machine. Reel. *No. 1* Type *41*
 Turns *59* Cor. *+* Depth *57 fms.*
 Shot or lead
 Bottom *R*
 Bottom temperature
 No. of thermometer Cor.
 Corrected temperature
 Air *59°* Surface *57°* Drift
 Trawl or dredge

SOUNDING WIRE.

DOWN. *1*

UP.

TURNS.

DREDGE ROPE.

DOWN. *P.M.*

UP.

		0	1.16.30	1.29.00
		100		
		200		
		300	1.34.00	1.36.00
		400	Time 17.00	
		500		
1.25.00 - 55 + 4 =	61	600		1.40.00
1.27.00 - 58 + 4 =	62	700		
1.30.00 - 55 + 4 =	59	800		
1.31.00 - 55 + 4 =	59	900		
1.32.00 - 55 + 4 =	59	1000		
1.36.00 55 + 4 =	59	1100		
		1200		
		1300		
		1400	<i>R</i>	
		1500	<i>on</i>	
		1600	<i>Italian Sledge</i> <i>"The Sigsbee the Right</i> <i>data" "Italian Sledge"</i> <i>"is about 1/2 hour"</i> <i>"long"</i>	
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

To verify positions of Dr 4550 for determining
Italian Ledge.

Bar 30.05"

Temp 58°

Wind N.W.

Waves N.W.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

To verify location of Portuguese Sledge

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead 36 lbs

53 fms

Bottom R

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air Surface

Drift

Trawl or dredge

8

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

54

Monterey Bay.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

To locate *71**71*No. *71* Date *10/1/00*

Machine. Reel.

Turns *40* Cor. + *1* Depth *41*Shot or lead *26 lb**40 fms*Bottom *R*Bottom temperature *—*No. of thermometer *—*

Cor.

Corrected temperature *—*

Air

Surface *4*

Drift

Trawl or dredge *—*

SOUNDING WIRE. ✓

DOWN. *71* UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

2. 36.15 - 2. 46.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*2. 40.00 - 40 - 0 = 40**2. 43.00 - 37 - 0 = 37**2. 44.00 - 37 + 0 = 37**2. 45.00 - 37 + 0 = 37**2. 47.00 - 36 + 0 = 36**2. 48.00 - 36 + 0 = 36**2. 49.20 - 34 + 0 = 34**2. 51.00 - 33 - 0 = 32**2. 52.00 - 32 + 0 = 32**2. 53.00 - 32 + 0 = 32**2. 54.00 - 31 + 0 = 31**2. 55.00 - 30 + 0 = 30**2. 56.00 - 29 + 0 = 29**2. 57.00 - 28 + 0 = 28**2. 58.00 - 27 + 0 = 27**2. 59.50 - 26 + 0 = 26*

To determine location of Sunnyback Rock
known by fishermen as Rock Cod Sedge
of Monterey Bay.

	2600		
	2700		
Bar 22.00	2800	Monterey Bay	99° 13'
Walt "	2900	P.M.	2. 43. 20
	3000	Monterey Bay	57° 46' 00"
	3100		
	3200		
	3300		
	3400	Monterey Bay	54° 46' 00"
	3500	P.M.	2. 55. 00
	3600		
Thompson at Rock	3700		
is 1/2 mi	3800		
to S. of	3900		
"Rock Cod Sedge"	4000		

"of Monterey"

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

Monterey Bay

REMARKS:

No. *22* Date *Jan 9 1880*

Machine. Reel.

Turns *22* Cor. + DepthShot or lead *36 lbs*Bottom *fine gy. S*Bottom temperature *—*No. of thermometer *—* Cor.Corrected temperature *L*Air *—* Surface DriftTrawl or dredge *15'*

SOUNDING WIRE.

DOWN. *P.M.* UP.

TURNS.

DREDGE ROPE.

DOWN. UP.

<i>3 04.50</i>	<i>V</i>	0	<i>3 04.50</i>	<i>1.38</i>
		<i>50</i>		
		<i>100</i>	<i>1.08</i>	
<i>3 07.00</i>		200		
			<i>20</i>	
<i>3 08.30</i>		300		
			<i>8 1/2</i>	
		400		
			<i>1/2</i>	
		500		
			<i>3.29</i>	
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300	"	"
		1400		
		1500	<i>immense mass of</i>	
		1600	<i>squid eggs and bones</i>	
		1700	<i>shells etc. etc. etc.</i>	
		1800	<i>in presence of trawl</i>	
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	142
	2600	142
	2700	142
	2800	142
	2900	142
	3000	142
	3100	142
	3200	142
	3300	142
	3400	142
	3500	142
	3600	142
	3700	142
	3800	142
	3900	142
	4000	142

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<p>Time to end of preceding Dr 4558 dredged in on suspension Dr 4559 to end of preceding series</p>			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Δ 4560* Date *11 Dec, 1904*
Tanner Machine. Reel.
Turns *10* Cor. + *0* Depth *10 fms.*
Shot or lead *25 lb*
Bottom *fine gy S. R.*
Bottom temperature
No. of thermometer Cor.
Corrected temperature
Air *63°* Surface *60°* Drift
Trawl or dredge *6 Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7.52</i>		0	<i>7.52.00</i>	<i>8.00.00</i>
		<i>20</i>	<i>7.54.00</i>	<i>8.02.00</i>
		100		
		200		
<i>7.54</i>	<i>10 fms</i>	300		
<i>55</i>	<i>10 "</i>	400	<i>Gal. chamber</i>	
<i>55 1/2</i>	<i>11 "</i>	500		
<i>56</i>	<i>11 "</i>	600	<i>Bottom</i>	
<i>56 1/2</i>	<i>11 "</i>	700		
<i>57</i>	<i>12 "</i>	800	<i>fine gy S. R.</i>	
<i>58</i>	<i>11 "</i>	900		
<i>59</i>	<i>12 "</i>	1000		
	<i>12 "</i>	1100		
<i>8.10</i>	<i>12 "</i>	1200		
<i>8.11.20</i>	<i>13 "</i>	1300		
<i>7.12</i>	<i>12 "</i>	1400		
<i>8.13</i>	<i>13 "</i>	1500		
<i>8.14</i>	<i>14 "</i>	1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
Dir. Comm. S. 1000.	2800	2800
Comp. 1000. 1000.	2900	2900
1000. 1000.	3000	3000
1000. 1000.	3100	3100
1000. 1000.	3200	3200
1000. 1000.	3300	3300
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	30.0	11		
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *135-115*

Date *Nov 23 1881*

Machine.

Reel.

Turns *15* Cor. + *0*

Depth *15 fms*

Shot or lead *25 lb*

Bottom *gy.*

Bottom temperature

No. of thermometer

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>7.15</i>	<i>15.5</i>	<i>0</i>
<i>8.15</i>	<i>15.4</i>	<i>100</i>
<i>16</i>	<i>15.3</i>	<i>200</i>
<i>17</i>	<i>15.2</i>	<i>300</i>
<i>etc., etc.</i>	<i>15.1</i>	<i>400</i>
<i>18.15</i>	<i>14.5</i>	<i>500</i>
<i>19.15</i>	<i>14.4</i>	<i>600</i>
	<i>14.3</i>	<i>700</i>
	<i>14.2</i>	<i>800</i>
	<i>14.1</i>	<i>900</i>
	<i>15.0</i>	<i>1000</i>
	<i>15.1</i>	<i>1100</i>
	<i>16.0</i>	<i>1200</i>
	<i>16.1</i>	<i>1300</i>
	<i>15.2</i>	<i>1400</i>
	<i>16.2</i>	<i>1500</i>
	<i>16.3</i>	<i>1600</i>
	<i>15.4</i>	<i>1700</i>
	<i>16.4</i>	<i>1800</i>
	<i>15.5</i>	<i>1900</i>
	<i>15.6</i>	<i>2000</i>
		<i>2100</i>
		<i>2200</i>
		<i>2300</i>
		<i>2400</i>

2500	Sample 1st 68° 25'	8.10
2600	2nd 100° 00'	8.15.20
2700	Sample 1st 50° 00'	8.20
2800	2nd 100° 00'	8.25
2900	Sample 1st 40° 00'	8.30
3000	2nd 100° 00'	8.35
3100	Sample 1st 30° 00'	8.40
3200	2nd 100° 00'	8.45
3300	Sample 1st 20° 00'	8.50
3400	2nd 100° 00'	8.55
3500	Sample 1st 10° 00'	9.00
3600	2nd 100° 00'	9.05
3700	Sample 1st 0° 00'	9.10
3800	2nd 100° 00'	9.15
3900	Sample 1st 0° 00'	9.20
4000	2nd 100° 00'	9.25

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Reef Run as per			
50	above angles, is (x)			
100	North and South direction; wider East			
200	and West, good fish			
300	catch is generally eaten by eels be-			
400	fore the fisherman get it Mr. W.			
500	Lamaster supplies these notes.			
600				
700	about 600 feet.			
800				
900				
1000				

REMARKS:

No. *155* Date *11 June 1881*
Tanner Machine. Reel.

Turns *15* Cor. + *0* Depth *15 fms*

Shot or lead *25 lb*

Bottom *R. crs. S. Sh*

Bottom temperature *-*

No. of thermometer *-* Cor. *-*

Corrected temperature *-*

Air *66°* Surface *60°* Drift

Trawl or dredge *8 Tangles and 1100*

SOUNDING WIRE.		TURNS.	DREDGE ROPE	
DOWN.	UP.		DOWN.	UP.
<i>0.00</i>	<i>2.15</i>	0	<i>0.20</i>	<i>8.00</i>
		25	<i>0.40</i>	<i>8.15</i>
		100		
		200	<i>1.12</i>	
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

<i>Saguel-Frog</i>	2500	
	2600	
	2700	<i>Position</i>
	2800	<i>8.53</i>
	2900	<i>Saguel-Lt Ho 44° 23'</i>
<i>Boysing H. Co.</i>	3000	<i>Lt Ho-Morre 9° 54'</i>
	3100	<i>8.45</i>
	3200	<i>Saguel-Lt Ho 53° 40'</i>
<i>at a corner, 4000 ft. S. of</i>	3300	<i>Lt Ho-Morre 10° 26'</i>
<i>Current set to S.W. at</i>	3400	<i>8.50</i>
<i>very strong.</i>	3500	<i>Saguel-Lt Ho 61° 20'</i>
<i>Clear, light breeze, S.</i>	3600	<i>Lt Ho-Morre 10° 48'</i>
<i>Light breeze S.W.</i>	3700	<i>8.53</i>
<i>Small waves</i>	3800	<i>Saguel-Lt Ho 67° 23'</i>
<i>Mar. 24. 1902</i>	3900	<i>Lt Ho-Morre 11° 00'</i>
<i>7.00 AM. 62°</i>	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		<i>Coel 10</i>	<i>wide in N. and</i>	
50		<i>1</i>	<i>S. side.</i>	
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Sft.

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

To locate cad bank at 2300

on middle of
bed 1

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:


No. *1552* Date *Dec 1, 1881*
Tanner Machine. Reel.
 Turns *10* Cor. + *0* Depth *10 fms.*
 Shot or lead *25 lb*
 Bottom *hard Bottom*
 Bottom temperature *—*
 No. of thermometer *—* Cor. *—*
 Corrected temperature *—*
 Air *64°* Surface *58* Drift *—*
 Trawl or dredge *6 fms. 15 lb. net*

SOUNDING WIRE.

DOWN.	UP.	TURNS.
<i>12.12</i>	<i>4</i>	0
		<i>1-</i>
		<i>100</i>
		<i>10</i>
		200
<i>10.10</i>	<i>10</i>	300
		400
	<i>9</i>	500
	<i>9</i>	600
	<i>0</i>	700
<i>12.20</i>	<i>10</i>	800
	<i>9</i>	900
	<i>8</i>	1000
	<i>10</i>	1100
	<i>10</i>	1200
	<i>10</i>	1300
<i>12.30</i>	<i>10</i>	1400
	<i>10</i>	1500
	<i>10</i>	1600
	<i>10</i>	1700
	<i>10</i>	1800
	<i>10</i>	1900
	<i>10</i>	2000
	<i>10</i>	2100
	<i>11</i>	2200
	<i>10</i>	2300
	<i>10</i>	2400

DREDGE ROPE.

DOWN.	UP.
<i>12.13</i>	<i>10.12</i>
<i>12.14</i>	
<i>12.15</i>	<i>12.15</i>
<i>12.16</i>	
<i>12.17</i>	
<i>12.18</i>	
<i>12.19</i>	
<i>12.20</i>	
<i>12.21</i>	
<i>12.22</i>	
<i>12.23</i>	
<i>12.24</i>	
<i>12.25</i>	
<i>12.26</i>	
<i>12.27</i>	
<i>12.28</i>	
<i>12.29</i>	
<i>12.30</i>	
<i>12.31</i>	
<i>12.32</i>	
<i>12.33</i>	
<i>12.34</i>	
<i>12.35</i>	
<i>12.36</i>	
<i>12.37</i>	
<i>12.38</i>	
<i>12.39</i>	
<i>12.40</i>	
<i>12.41</i>	
<i>12.42</i>	
<i>12.43</i>	
<i>12.44</i>	
<i>12.45</i>	
<i>12.46</i>	
<i>12.47</i>	
<i>12.48</i>	
<i>12.49</i>	
<i>12.50</i>	
<i>12.51</i>	
<i>12.52</i>	
<i>12.53</i>	
<i>12.54</i>	
<i>12.55</i>	
<i>12.56</i>	
<i>12.57</i>	
<i>12.58</i>	
<i>12.59</i>	
<i>12.60</i>	

 <p> <i>Dr. Cruise, 10.15.1</i> <i>Temp. 10.15.1</i> <i>Bar. 29.92</i> <i>Therm. 63</i> </p>	2500		
	2600	<i>Cond. 1.0</i>	
	2700	<i>Therm. 10.15.35</i>	
	2800		
	2900		
	3000	<i>2.0 - 1.0</i>	
	3100	<i>Therm. 10.15.40</i>	
	3200	<i>Bl. 10.15.45</i>	
	3300		
	3400	<i>2.0 - 1.0</i>	
	3500	<i>Tank - Bl. 10.15.50</i>	
	3600	<i>Bl. 10.15.55</i>	
	3700		
	3800	<i>Bl. 10.16.00</i>	
	3900	<i>Bl. 10.16.05</i>	
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4563 Date 11 June, 1904

Tanner Machine. Reel.

Turns 8 Cor. + 0 Depth 8 fms

Shot or lead 25 lb

Bottom ky.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge 8 Tangle and Mud Bar

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11-34 =	✓	0	11-34 =	✓
		15	11-35 =	✓
		100		
11-35 =	7	200	V = 10 min	
36	7	300		
	7	400		
37	7	500		
	7	600		
38	8	700		
	8	800		
39	8	900		
	8	1000		
11-40 =	8	1100		
	8	1200		
41	8	1300		
	8	1400		
42	8	1500		
	8	1600		
43	8	1700		
	8	1800		
11-44 =	8	1900		
		2000		
		2100		
		2200		
		2300		
		2400		

No. *4564* Date *11 June 10*

Machine. Reel.

Turns *9* Cor. + *0* Depth *9 fms.*Shot or lead *25 lb*Bottom *ky.*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

*6 Trawl**200 fms.*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

*11.48.00**✓**-**0**11.48.00**11.57.00**Inter Sdgo.**15**11.49.00**11.58.00**100**17**200**300**400**500**600**700**800**900**1000**1100**1200**1300**1400**1500**1600**1700**1800**1900**2000**2100**2200**2300**2400**10.50.00**50 10.00**10.00*

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

Sound - 27.4 / 37° 2' 40"
38.0 - 13° 11'
39.0 - 12° 57'
40.0 - 12° 50'

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Trial

No. (4565) Date 16 Sep. 1904

Lucas Machine. Reel.

Turns 587 Cor. + 0 Depth 587 fms

Shot or lead 30 lb Snappers with Snapper

Bottom Sn M.

Bottom temperature —

No. of thermometer

Cor.

Corrected temperature

Air 60° Surface 60° Drift

Trawl or dredge 8' 131. Alb. 2 fms. 1/2 fms. 1/4 fms. 1/8 fms. 1/16 fms. 1/32 fms. 1/64 fms. 1/128 fms. 1/256 fms. 1/512 fms. 1/1024 fms. 1/2048 fms. 1/4096 fms. 1/8192 fms. 1/16384 fms. 1/32768 fms. 1/65536 fms. 1/131072 fms. 1/262144 fms. 1/524288 fms. 1/1048576 fms. 1/2097152 fms. 1/4194304 fms. 1/8388608 fms. 1/16777216 fms. 1/33554432 fms. 1/67108864 fms. 1/134217728 fms. 1/268435456 fms. 1/536870912 fms. 1/1073741824 fms. 1/2147483648 fms. 1/4294967296 fms. 1/8589934592 fms. 1/17179869184 fms. 1/34359738368 fms. 1/68719476736 fms. 1/137438953472 fms. 1/274877906944 fms. 1/549755813888 fms. 1/1099511627776 fms. 1/2199023255552 fms. 1/4398046511104 fms. 1/8796093022208 fms. 1/17592186044416 fms. 1/35184372088832 fms. 1/70368744177664 fms. 1/140737488355328 fms. 1/281474976710656 fms. 1/562949953421312 fms. 1/1125899906842624 fms. 1/2251799813685248 fms. 1/4503599627370496 fms. 1/9007199254740992 fms. 1/18014398509481984 fms. 1/36028797018963968 fms. 1/72057594037927936 fms. 1/144115188075855872 fms. 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St. Gallen 50 St. H.

28 56° E.

C8 Chart

#5500-

Dr. Conner, S.E.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Full of the Frenches -
San Francisco Entrance

C = 1/4 in. deep

1 3/4 in. deep

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507
11.11.11

No. *H. 4804* Date *16 Sept 1904*

Lucas Machine. Reel.

Turns Cor. + Depth *4957*

Shot or lead *60 lb*

Bottom *gn. M.*

Bottom temperature

No. of thermometer *None* Cor.

Corrected temperature

Air *60°* Surface *60°* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.48.00</i>	<i>12.03.00</i>	0		
	<i>01.40</i>	100		
	<i>12.00.25</i>	200		
	<i>59.10</i>	300		
<i>11.52.25</i>	<i>57.50</i>	400		
<i>11.53.45</i>	<i>11.56.30</i>	<i>495</i> 500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SS Caroline L.H. N 51° E.

9 3/10'

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *(1000)*Date *Sept 11, 1906**Lucas*

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead *35# with snapper*Bottom *gy M.*

Bottom temperature

No. of thermometer *none* Cor.

Corrected temperature

Air *61* Surface *60* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1-06-00</i>	<i>1-06-17</i>	0		
<i>1-06-15</i>	<i>1-06-17</i>	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Trial

No. ~~147-23~~

Date Sept. 16 1904

Lucas

Machine.

Reel.

Turns

Cor. +

Depth

Shot ~~or lead~~ 35^{lb} with snapper

Bottom gn. S.

Bottom temperature

No. of thermometer none

Cor.

Corrected temperature

Air 61

Surface 60

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<u>1-24-56</u>	<u>1-27-10</u>	0		
<u>1-25-35</u>	<u>1-26-50</u>	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

NOT.
DeLong

No. 4566.

Date Sep. 16, 1902

Lucas Machine. Reel.

Turns Cor. + Depth 22 (?) fms.

Shot or lead 30th with snapper

Bottom M. batt. sh.

Bottom temperature

94.5 (fath. temp.)

No. of thermometer

Cor. N.E. by E.

Corrected temperature

Air

Surface 57

Drift East 5/10

Trawl or dredge 12 ft. beam trawl

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

9-25-12

0

9-36-10

3-47-10

3-33-5

100

3-24-10

3-11-10

200

-30-

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

4567, 37-25 12

122-26 1100

68, 36-45 11300

122-02 1100

69, 34-45 11600

120-15 1100

70, 34-20 1100

120-20 2000

Lucas Reel

Point Bonita Light House

	2500	3566' E.
	2600	105/10
	2700	10
	2800	105/10'
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2500' to 70' incl. are Pump
 water stations. = a net established on
 starboard gangway, 20 alk. bag supplies
 by constant stream to near full
 capacity by means of pumps.

0071

P.L. = 57.6

No. *Dr. 4171* Date *7 Oct. 1902*

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *69°* Surface *66°* Drift

Trawl or dredge

Plankton haul

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>3.04</i>	<i>3.12</i>
<i>No Sdg.</i>		100	<i>2.15</i>	<i>3.20</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		<i>4.05</i>
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Surf. net from 1. hour
Long lead down until
started when down
and back up
Robert. over the
stream.
Hauled in at
18 min

33-40 N. 119-35 W.

	2500	
	2600	
	2700	
	2800	
	2900	
Dr. Cruise:	3000	
Fair, warm, breeze	3100	
Lt. breeze, variable	3200	
Smooth Sea.	3300	
Bar. 29.79	3400	
Therm. 71°	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Sancti	Hauls one 14"	20 silk	
50		Hybrid, and one	" 4' S. m. m.	
100		21st, 1st series, down	reels.	
200		collyer, 1st side, 300 fms.		
300		rope, leading from Phoenix		
400		after drift!		
500	15 miles	1st, in one Port lower beam.		
600		one 12" 12 silk Hybrid and 1/2	1/2	
700		one 14" 12 silk		
800				
900				
1000				

REMARKS:

72-33-30 N.
119-25 W.
73-31-35 N.
118-10 W.

Del. 11

No. *4574* Date *Oct. 8, 1904*

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom *No Sounding*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *76* Surface *69* Drift

Trawl or dredge *2 1/2 foot net. vertical beam*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>PM. 3:03-31</i>	<i>2:22-41 ?</i>
		100		
		<i>140</i>		
		200	<i>3:17</i>	<i>3:00-00</i>
		300	<i>3:16</i>	<i>3:15-15</i>
		400		
		500	<i>Over</i>	<i>Over</i>
		600		
		<i>PM.</i>		
		800		
		900		
		<i>PM.</i>		
		1100		<i>3:12-15</i>
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

30-35 N. 117-15 W

	2500	
	2600	
	2700	
	2800	
Surf	2900	
1000 fms	3000	
2000 fms	3100	
Barometer 30.1	3200	
Therm 76	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	24.1	surface water		
50				
100				
200	1/2 fms "22" - "4"			
300	1/2 fms "22" - "4"			
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Pressure in Dr. 4575
30-15 N. 117-10 W.

507.
No. 4576

Machine.

Reel.

Date 8 Oct 1904

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

67°

Surface

67°

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Began

about

in at

8.35 p.

8.51 p.

4' Surf. Net from Pt. Loom

12" Kops # 12 Silke towing

14" Kops # 20 Silke towing

29-52 N. 116-56 W.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

Fair.

Lt breeze, SW
Smooth Sea.
Bar. 29.96
Ther. air. 72°

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Nos. 4577-4579, both
inclusive, are (Animo)
filters.

4578, 28-25 N. 115-55 W.
29, 27-02 N. 114-40 W.
77, 25-32 N. 113-13 W.

No. 1580 Date 10 Oct. 09

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

No Sounding

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 74° Surface 76° Drift

Trawl or dredge

Plankton haul

SOUNDING WIRE.

DOWN.

UP.

TURNS.

AM DREDGE ROPE.

DOWN.

UP.

From bottom to top, Dory:

*2 vertical Ropes, 12" & 12" silk, and 14" of 20 silk,
300 fms. in - down 300 10.52 11.25*

400

11.05

11.05

= 12 min. 500 going down

15 " 600 coming up

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*5 ft. Chan^x sandy silt, and a brownish
fine (1st bottom) - and*

12" & 12" silk and 14" of 20 silk Ropes

*AK out at
Ropes in at*

*(slow sand)
and 14" of 20 silk*

11.22

11.29

= time 1 min.

13 min.

*x Ropes with float
at tail.*

24-55 N. 112-45 W.

	2500	
	2600	
	2700	
	2800	
Clear sky & calm.	2900	
Gentle breeze NW.	3000	
Moderate Sea.	3100	
Bar. - 29.91	3200	
Therm. at 77°	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

At 11.25 towing of (Chin Net pulled);
 Net raised at 1.15. Catch of fish
 (practically lost.) damaged.

// 4581-82 are
 pump filters.

81 - 24-55 N. 112-45 W.
 82 - 23-12 110-32 W.

Arch

No. *582* Date *11 Oct. 1904*

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom *No Sounding*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *82°* Surface *82°* Drift

Trawl or dredge *Plankton haul*

SOUNDING WIRE.

AM. DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*From Dory's after
dredge!*

0

10.07.

10.20

100

*2 var. Kypids as before,
300 fms. line*

200

300

10.20

10.20.20

400

= down in 13 m.

500

up in 15 m.

Set clock 1903

From Port Loma Beam

700

and

800

From Ship's Deck

900

1000 fms. haul

1000

and 2 fms. as before

1100

11.02; in

11.20

(500 fms. haul)

1200

= Towing 18 min.

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

22-48 H.

110 - 05.4V.

	2500	
	2600	
Fair, warm, bgy	2700	
over land	2800	
Clear.	2900	
Smooth sea.	3000	
Bar. 29.87	3100	
Therm. 82.5	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Station 22-48 H. 96, 100
inclusive, are pump data
'Station'

84 - 22-05 H. 109 - 10 W.
85 - 21-00 H. 109 - 37 W.
86 - 19-52 H. 106 - 22 W.

No. *17-4587* Date *12 Oct, 1904*

Machine. Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

No Sounding

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *82°* Surface *82°* DriftTrawl or dredge *Plankton haul*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>2 Vertical Kelpids</i> <i>as before from</i> <i>10 min. after</i> <i>start.</i>		0	<i>10.05</i>	<i>10.15</i>
		100		
		150	<i>10.12.30</i>	<i>10.42.30</i>
		200		
		300	<i>10.15.00</i>	<i>10.29.00</i>
		400		
<i>10 min.</i>	<i>10 min.</i>	500		
<i>16 "</i>	<i>16 "</i>	600		
		700		
<i>Fit clock stand</i>		800		
<i>12 min. while note</i>		900		
<i>was down.</i>		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

20-42 A

107-25 W

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507.
No. 11588

Date Oct. 12, 1907.

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom *fine sand*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *81°* Surface *82°* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

5 ft Surface net
12" Kefahl #12 silk
14" " #20 "
000 silk in dredge
Towing astern

106-224

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Station 50-589 - Long Point
Station.
89-018-50 N. 104-50 W

No.

4590

Date

Oct 13 '04

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

No Soundings

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

83°

Surface

83°

Drift

Trawl or dredge

Plankton net

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

1 12" 12 fathoms

0

10.04.05

10.42.00

1 14" 20 fathoms

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

10 min. 14 min.

22 min.

10.20

10.28

10.36

10.44

10.52

11.00

11.08

11.16

11.24

11.32

11.40

11.48

11.56

12.04

12.12

12.20

12.28

12.36

12.44

12.52

13.00

13.08

13.16

13.24

13.32

13.40

13.48

13.56

14.04

14.12

14.20

14.28

14.36

14.44

14.52

15.00

15.08

15.16

15.24

15.32

15.40

15.48

15.56

16.04

16.12

16.20

16.28

16.36

16.44

16.52

17.00

17.08

17.16

17.24

17.32

17.40

17.48

17.56

18.04

18.12

18.20

18.28

18.36

18.44

18.52

19.00

19.08

19.16

19.24

19.32

19.40

19.48

19.56

20.04

20.12

20.20

20.28

20.36

20.44

20.52

21.00

21.08

21.16

21.24

21.32

21.40

21.48

21.56

22.04

22.12

22.20

22.28

22.36

22.44

22.52

23.00

23.08

23.16

23.24

23.32

23.40

23.48

23.56

24.04

24.12

24.20

24.28

24.36

24.44

24.52

25.00

25.08

25.16

25.24

25.32

25.40

25.48

25.56

26.04

26.12

26.20

26.28

26.36

26.44

26.52

27.00

27.08

27.16

27.24

27.32

27.40

27.48

27.56

28.04

28.12

28.20

28.28

28.36

28.44

28.52

29.00

29.08

29.16

29.24

29.32

29.40

29.48

29.56

30.04

30.12

30.20

30.28

30.36

30.44

30.52

31.00

31.08

31.16

31.24

31.32

31.40

31.48

31.56

32.04

32.12

32.20

32.28

32.36

32.44

32.52

33.00

33.08

33.16

33.24

33.32

33.40

33.48

33.56

34.04

34.12

34.20

34.28

34.36

34.44

34.52

35.00

35.08

35.16

35.24

35.32

35.40

35.48

35.56

36.04

36.12

36.20

36.28

36.36

36.44

36.52

37.00

37.08

37.16

37.24

37.32

37.40

37.48

37.56

38.04

38.12

38.20

38.28

38.36

38.44

38.52

39.00

39.08

39.16

39.24

39.32

39.40

39.48

39.56

40.04

40.12

40.20

40.28

40.36

40.44

40.52

41.00

41.08

41.16

41.24

41.32

41.40

41.48

41.56

42.04

42.12

42.20

42.28

42.36

42.44

42.52

43.00

43.08

43.16

43.24

43.32

43.40

43.48

43.56

44.04

44.12

44.20

44.28

44.36

44.44

44.52

45.00

45.08

45.16

45.24

45.32

45.40

45.48

45.56

46.04

46.12

46.20

46.28

46.36

46.44

46.52

47.00

47.08

47.16

47.24

47.32

47.40

47.48

47.56

48.04

48.12

48.20

48.28

48.36</

18-50 N.

104-50 W.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Clear
 Light
 Calm
 Smooth Sea
 Bar. 29.80
 Therm. 83

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1891

18-20 N.

103-40 W.

No. *472* Date *Oct 13, 1904*
Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom *No Sounding*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *84°* Surface *83°* Drift

Trawl or dredge

SOUNDING WIRE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

1st Bot. 1000
1st Surf. 1000
Electric Light attached.

12' Hyd. 1400

14' Hyd. 1700

18-20 N.

103-40 W.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

Fair
Sea-breeze
Light breeze
Bar 29.75
Ther. 84°

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

Cast at 7-36-30 Am 7-54-30

Cast 7-37-30 Am 7-55-

7-37-52 Am 7-55-

REMARKS:

Station 101 is a sample
from station.

17-25 N, 101 5-0 W.

No. *D-4594* Date *14 Oct. 1904*

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom *No Sounding.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *83°* Surface *84°* Drift

Trawl or dredge *Plankton haul.*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

Am DREDGE ROPE.

DOWN.

UP.

*2 Vertical Kelpids
as before from
Dredge net, 300 fms. line out.*

Current 11 mi

in 15 mi

0

10.00.00

10.20.00

100

200

300

10.15.00

10.15.00

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

17-20 N.

101 - 32 W

101

	2500
	2600
	2700
	2800
Fair and warm	2900
light air, ENE.	3000
Smooth sea	3100
Bar. 29.82	3200
Therm. 82°	3300
	3400
	3500
	3600
	3700
	3800
	3900
	4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Caught a turtle on the line.

Dr. 459 is a small bottle
 still. Sack changed
 from #20 to #12.
 16-47 N. 100-00 W.
 100-27 W.

No. 11375

Date Oct. 17, 1907

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom No Sounding

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 86° Surface 84° Drift

Trawl or dredge

R.M.

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

		0		
10	12	100	7.06	7.06
		200	Light	7.06
		300		
		400	7.08	7.08
		500		
		600	7.08	7.08
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

16-47 N.

100-27 W.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Station 16-47 N. 100-27 W. is a propagation station.

16-10 N. 98-37 W.

No. *4598* Date *15 Oct. 04.*

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *83°* Surface *84°* DriftTrawl or dredge *Plankton haul.*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

Am DREDGE ROPE.

DOWN.

UP.

✓ Vertical Trawl
as before, from
surface to 300 fms. haul.
300 fms. haul.
= down in 12 min.
up in 18 min.

0

*10.05. -**12.35. -*

100

200

300

*12.17. -**10.17. -*

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Haul, practically
Vertical.
Points hauls at
angles due to drift
of ship - up to 45° ±

15-58 N.

98-13 W.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

15-36 N. 97-00 W.

NOT.
Long

No. D. 4200

Date Oct 15th 1904.

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom No Soundings

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 85° Surface 82° Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

5 ft. surface	1000	7-6-	7-24
5 ft. light			
5 ft. Bottom	300		
	400		
	500	7-5-	7-25
	600		
	700		
	800	7-5-	7-25
	900		
	1000		
	1100		
	1200		
	1300		
	1400		
	1500		
	1600		
	1700		
	1800		
	1900		
	2000		
	2100		
	2200		
	2300		
	2400		

15-36 n.

97 00 W.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

4657 14-58 n. 95-17 W.
 02 12-27 n. 93-12 W.
 03 12-30 n. 92-30 W.
 04 12-21 n. 92-12 W.
 05 12-21 n. 92-13 W.

No. *20*

Date *17 Oct. 1904*

Machine. *Reel.*

Turns

Cor. +

Depth 1200 fms

Shot or lead

11 (from chart)

Bottom

No. Sounding

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

cone dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

Am. DREDGE ROPE.

DOWN.

UP.

<i>12-21-20</i>	<i>12-21-20</i>	07	<i>9.14.00</i>	<i>12.29.40</i>
<i>was done to take the</i>	<i>12-21-20</i>	100	<i>20.20</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	200	<i>22.40</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	300	<i>25.25</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	400	<i>28.00</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	500	<i>30.25</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	600	<i>32.50</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	700	<i>35.25</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	800	<i>38.00</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	900	<i>40.25</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	1000	<i>43.00</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	1100	<i>45.25</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	1200	<i>48.00</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	1300	<i>50.25</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	1400	<i>53.00</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	1500	<i>55.25</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	1600	<i>58.00</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	1700	<i>60.25</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	1800	<i>63.00</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	1900	<i>65.25</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	2000	<i>68.00</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	2100	<i>70.25</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	2200	<i>73.00</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	2300	<i>75.25</i>	<i>12.29.40</i>
<i>12-21-20</i>	<i>12-21-20</i>	2400	<i>78.00</i>	<i>12.29.40</i>

Heaving in

C. 100 fathoms	2 1/2 +	2500	10.02.20	13.20
"	3 1/2 +	2600	05.00	11.05.10
"	3 1/2 +	2700	06.20	59.20
"	3 1/2 +	2800	07.45	
"	3 1/2 +	2900	09.00	48.20
"	3 1/2	3000	0.25	42.00
"	3 1/2 - 3 3/4	3100	1.55	37.05
"	3 1/4 - 3 1/2	3200	13.20	30.50
"	3 - 3 1/4	3300	14.30	27.50
"	3 - 3 1/4	3400	10.16.00	10.17.20
"	3 fms	3500 ✓		
		3600		
		3700		
		3800		
		3900		
		4000		

10/11/11
Small fish

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1 kink at 100 fathoms }
 2 " 50 + 100 } 9 kinks
 6 " 50 + 0 - 65 } 100 fms.
 Skine started 65 fathoms

501.

15

No. 4405

Date Feb 17, 1904

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom M. Sanding

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 84

Surface 85.

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

PMDREDGE ROPE

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

12-46-10 1-22-3

12-50-00 1-27-00

	2500	
	2600	
	2700	
	2800	
Fair	2900	
Light Breeze S by E	3000	
Breeze 29. 60	3100	
Ther. 84	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

4556 12-50 H. 91-300

No. *4607* Date *Oct 17, 1904.*

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom *No Sounding*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *82°* Surface *83°* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*5' to surface from
1' and 1' with
elect. light as before.*

14" 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27' 28' 29' 30' 31' 32' 33' 34' 35' 36' 37' 38' 39' 40' 41' 42' 43' 44' 45' 46' 47' 48' 49' 50' 51' 52' 53' 54' 55' 56' 57' 58' 59' 60' 61' 62' 63' 64' 65' 66' 67' 68' 69' 70' 71' 72' 73' 74' 75' 76' 77' 78' 79' 80' 81' 82' 83' 84' 85' 86' 87' 88' 89' 90' 91' 92' 93' 94' 95' 96' 97' 98' 99' 100'

17" 18" 19" 20" 21" 22" 23" 24" 25" 26" 27" 28" 29" 30" 31" 32" 33" 34" 35" 36" 37" 38" 39" 40" 41" 42" 43" 44" 45" 46" 47" 48" 49" 50" 51" 52" 53" 54" 55" 56" 57" 58" 59" 60" 61" 62" 63" 64" 65" 66" 67" 68" 69" 70" 71" 72" 73" 74" 75" 76" 77" 78" 79" 80" 81" 82" 83" 84" 85" 86" 87" 88" 89" 90" 91" 92" 93" 94" 95" 96" 97" 98" 99" 100'

Towing

7-11

7-11

7-11

7-11-20

7-11

7-11-20

*See 4606 for
print*

(same as old)	2500
	2600
Cloudy	2700
Wind, S.W.	2800
Temp 27.0	2900
Wind 8.0	3000
	3100
	3200
	3300
	3400
	3500
	3600
	3700
	3800
	3900
	4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Dr. 4608 in a few feet. 11-15 n. 89-48W

507. *Trick*

No. *Dr. 4609* Date *19 Dec, 1904*

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

No Sounding

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *82°* Surface *81°* Drift

Trawl or dredge *Plankton Haul*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

Ann. DREDGE ROPE.

DOWN.

UP.

*2 vertical Tapes
as before, from
dredge after 200
200 fath. line*

*= down in 12 min
up in 16 "*

0

10.15-

10.23

100

200

300

10.17-

10.17-

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

11-02 11.

87-33 W.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Cloudy - nearly overcast.
 Gentle breeze, South.
 Moderate Sea.
 Bar. 29.80
 Therm. at 82°

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

4510 ft.
 Pump filter etc.

10-33 n. 88-30 W.

No. *D-4411*Date *July 18, 1900*

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom *No Sounding*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *78°*Surface *78°*

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

741 DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*7403-30**7-21-00**703-30**7-23-00**703-30**7-23-00*

		2500	
		2600	
Cloudy		2700	
		2800	
Sea moderate S-S	5-9	2900	
Bar 29.86		3000	
Ther. 78°		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Dr. Sta. 4612 is a
 pump-out station
 9-50 N. 86° 40 W.

No.

4612

Date

19 Oct. 04.

Machine.

Recl.

Turns

Cor. +

Depth

Shot or lead

Bottom

No Sounding

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

81°

Surface

80°

Drift

Trawl or dredge

Plankton haul

SOUNDING WIRE.

DOWN.	UP.	TURNS.	DOWN.	UP.
2 vertical		0	10.05.00	10.22.00
Kobide		100		
as before, from		200		
single point		300	10.16.00	10.16.00
		400		
= down in 11 min		500		
up in 16 "		600		
		700		
		800		
Line being astern		900		
at an angle of		1000		
about 70°		1100		
		1200		
Line leading fwd		1300		
during descent.		1400		
Probably about full		1500		
up		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

9-45ⁿ.

86-20 W.

	2500	
	2600	
Fair and clear	2700	
Gentle breeze, SSW	2800	
Smooth sea	2900	
Bar. 29.83	3000	
Therm. 84	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

4614 = R.F. sta.

9-07 n. 83-11 W.

No. 4615

Date Oct 19, 1911

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom. No Sanding

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 81° Surface 80° Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

7-20-30

7-20-30

7-20-30

(Station 4514)

	2500	
	2600	
	2700	
	2800	
2900	2900	
3000	3000	
3100	3100	
3200	3200	
3300	3300	
3400	3400	
3500	3500	
3600	3600	
3700	3700	
3800	3800	
3900	3900	
4000	4000	

2. m. 2. m.
 2. m. 2. m.
 2. m. 2. m. SW
 2. m. 2. m.
 2. m. 2. m.

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Dr. 4616 is a pump filter. etc.
 8-10 H. 2-83-33 W.

No.

4617

Date

20 Oct. 04.

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

No Sounding.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

77°

Surface

78°

Drift

Trawl or dredge

Plankton haul.

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

Two vertical Kofide
 on bottom, from
 Dredge's bottom drill,
 300 fms. line —
 = out in 10 min;
 up in 16 min.
 Line in about 45 angle.

The 5' Core
 Surface tow net
 from bottom have been
 and
 the two usual Ko-
 fide towing system

0

3.55.00

4.21.00

100

200

300

4.05.00

4.05.00

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Cm.

Cm.

4.27.00

4.45.00

= towing

18 min.

7-45 N. 82-25 W.

	2500	
	2600	
	2700	
25 fms {	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

Overcast.
Gentle breeze, SW by S.
Smooth Sea.
Bar. 29.72
Therm. at 81°

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

$\Delta = 4618$ is (?)

7-12 N. 82-08 W.

507.
No. 4617

Date *Oct 20, 1904*

Turns	Cor. +	Depth
-------	--------	-------

Bottom No Soundings
Bottom temperature

Bottom temperature

No. of thermometer	Cor.
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	
61	
62	
63	
64	
65	
66	
67	
68	
69	
70	
71	
72	
73	
74	
75	
76	
77	
78	
79	
80	
81	
82	
83	
84	
85	
86	
87	
88	
89	
90	
91	
92	
93	
94	
95	
96	
97	
98	
99	
100	

Corrected temperature

Air 78° Surface 79° Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE

DOWN.

UP.

TURNS,

DOWN110(2)160200300 $\frac{1}{2}(\mathcal{K})$ $\xi(X)$ 6007(X)8001300100011001208180914001500516017001800192020002100220023002400

DREDGE ROPE.	
DOWN.	UP.
4 Series hauls	
30 minutes each	
beginning at 7 P.M.	
1st haul used	
2nd " "	
3rd " "	
4th " no light x	
1 haul	
Quat. of 100	
100	

[illegible]

8x) out at 8:10
in at 8:30
5th Land; with
out at 8:37
in at 8:57
6th Land; without
out at 9:04
in at 9:24

Sam. 15/1

	2500	
	2600	
	2700	
(forecast	2800	
Smooth Sea	2900	
Light breeze, from	3000	?
Bar 29.77	3100	
Ther 78	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Dr. 4620 is a sample from
 Station
 6-45 N. 81-47 W.

307. Ki
= 11

No. *Dr. 4621* Date *21 Oct. 04.*
Lucas Machine. Reel. *Lucas.*

Turns *581* Cor. *+ - 0*, Depth *581 fms.*

Shot or lead *60 lb and Sigsbee Sdg. Cap.*

Bottom *Rocky? Gr S.*

Bottom temperature *41.*

No. of thermometer *98241.* Cor. *6*

Corrected temperature *40.5*

Air *82°* Surface *79°* Drift

Trawl or dredge *8' Bl.-Alb., as described below.*

Am. SOUNDING WIRE.		TURNS.	Am. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.12.40</i>	<i>9.40.00</i>	0	<i>9.50.00</i>	<i>10.58.30</i>
<i>13.50</i>	<i>38.35</i>	100	<i>54.45</i>	<i>54.30</i>
<i>15.00</i>	<i>27.15</i>	200	<i>57.55</i>	<i>50.40</i>
<i>16.20</i>	<i>35.55</i>	300	<i>10.00. -</i>	<i>46.30</i>
<i>17.45</i>	<i>34.30</i>	400	<i>03.20</i>	<i>42.45</i>
<i>19.10</i>	<i>32.15</i>	500	<i>06.25</i>	<i>39.15</i>
<i>9.20.40</i>	<i>9.31.30</i>	<i>581</i>	<i>09.10</i>	<i>35.45</i>
		<i>675 b.</i>	<i>12.20</i>	<i>30.40</i>
		<i>700</i>	<i>10.14.30</i>	<i>10.26.00</i>
		<i>750</i>	<i>= 11 1/2 min</i>	
		<i>800</i>		
<i>* 8' Blake-Albatross, ball bearing swivel shackle and ordinary shackle; Sinker: 2 wings, 2 Suter. flcs; 2 glass floats; preceptor gage; mud- bag.</i>		900	<i>Lost the Mudbag.</i> 	
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
<i>C. while dredging: 1 1/2 to 200.</i>		1900	<i>(750-700) (700-600) (600-300) (300-200)</i>	
<i>reared 4 fms.</i>		2000		
<i>C. while hauling in:</i>		2100		
<i>2, 2+, 2 1/2+, 1 1/2,</i>		2200		
<i>2 1/2 + 2 3/4, 1 1/2, 1 1/2 - 1 1/4</i>		2300		
<i>1 1/4</i>		2400		

C: Accumulator.

6-36 n. 87-44 W.

	2500	
	2600	
	2700	
	2800	
	2900	
<i>Dr. Course: S. W.</i> <i>Cloudy.</i> <i>Light breeze, S.</i> <i>Gentle swell.</i> <i>Bar. 29.80</i> <i>Ther. at 82°</i>	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

007.
DeLong

No. *Dr. 4622*, Date *21 Oct. 04.*

Lucas Machine. Reel. *Lucas*

Turns *581* Cor. + - 0 Depth *581*

Shot or lead *60 lb and Lucas Snapper*

Bottom *Red gn s.*

Bottom temperature *-*

No. of thermometer *none used*, Cor.

Corrected temperature *-*

Air *86°* Surface *81°* Drift

Trawl or dredge *8' Bl. - Albatross as before*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.06.10</i>	<i>11.21.15</i>	0	<i>11.36.30</i>	<i>12.50.10</i>
<i>07.50</i>	<i>19.55</i>	100	<i>40.20</i>	<i>46.30</i>
<i>09.10</i>	<i>18.55</i>	200	<i>43.20</i>	<i>43.00</i>
<i>10.15</i>	<i>17.55</i>	300	<i>46.30</i>	<i>39.30</i>
<i>11.20</i>	<i>16.55</i>	400	<i>49.30</i>	<i>36.10</i>
<i>12.30</i>	<i>15.50</i>	500	<i>52.45</i>	<i>32.00</i>
<i>11.14.00</i>	<i>11.15.00</i>	<i>581</i>	<i>56.00</i>	<i>26.45</i>
		<i>600</i>		
		<i>640</i>		
		700	<i>12.00.00</i>	<i>12-21-30</i>
		800		<i>21 Min</i>
		900		
		1000		
		1100		
				<i>Net torn - near</i>
<i>Quied when on bottom 4 fathoms</i>				
<i>0</i>	<i>While dredging from</i>	1300		
<i>1/4 52</i>		1400		
<i>0</i>	<i>While heaving in 1 1/2 to 2 1/4</i>	1500	<i>704 to 600</i>	
<i>1 1/4 to 1 3/4</i>		1600	<i>600 to 500</i>	
<i>1 1/4 to 1 1/2</i>		1700	<i>500 to 400</i>	
<i>1 1/4 to 1 1/2</i>		1800	<i>400 to 300</i>	
<i>1 to 1 1/2</i>		1900	<i>300 to 200</i>	
<i>1 to 1 1/4</i>		2000	<i>200 to 100</i>	
<i>1 1/4</i>		2100	<i>100 to 0</i>	
		2200		
		2300		
		2400		

6-31 N. 81-44 W.

Dr. Course: W. by S.

Cloudy.

Light breeze from South

Gentle swell.

Bar. 29.80.

Ther. at 82°

Wedge stopped 30 seconds at 5.00

bag.